

# CRF Errors Corrected by the STIC Systems Branch

01812  
3/30/99

Serial Number: 09/267,963

CRF Processing Date: \_\_\_\_\_  
 Edited by: \_\_\_\_\_  
 Verified by: A (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically \_\_\_\_\_
- ☒ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

**ENTERED**

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,963

DATE: 03/30/1999  
TIME: 08:51:21

INPUT SET: S31256.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

Does Not Comply  
Corrected Diskette Needed

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Kohei MIYAZONO, Takeshe IMAMURA, Peter ten  
6  
7 (ii) TITLE OF INVENTION: ISOLATED ALK-1 PROTEIN,  
8 ENCODING IT, AND USES THEREOF  
9  
10 (iii) NUMBER OF SEQUENCES: 29  
11  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: Fulbright & Jaworski L.  
14 (B) STREET: 666 Fifth Avenue  
15 (C) CITY: New York City  
16 (D) STATE: New York  
17 (E) COUNTRY: USA  
18 (F) ZIP: 10103  
19  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: Diskette, 3.25 inch, 1.44mb  
22 (B) COMPUTER: IBM PS/2  
23 (C) OPERATING SYSTEM: PC-DOS  
24 (D) SOFTWARE: Wordperfect  
25  
26 (vi) CURRENT APPLICATION DATA:  
27 (A) APPLICATION NUMBER: 09/039,177  
28 (B) FILING DATE: March 13, 1998  
29 (C) CLASSIFICATION: 435  
30  
31 (vii) PRIOR APPLICATION DATA:  
32 (A) APPLICATION NUMBER: PCT/GB93/0236  
33 (B) FILING DATE: November 17, 1993  
34  
35 (vii) PRIOR APPLICATION DATA:  
36 (A) APPLICATION NUMBER: GB 9224057.1  
37 (B) FILING DATE: November 17, 1992  
38  
39 (vii) PRIOR APPLICATION DATA:  
40 (A) APPLICATION NUMBER: GB 9304677.9  
41 (B) FILING DATE: March 8, 1993  
42  
43 (vii) PRIOR APPLICATION DATA:  
44 (A) APPLICATION NUMBER: GB 9304680.3  
45 (B) FILING DATE: March 8, 1993  
46

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,963DATE: 03/30/1999  
TIME: 08:51:21

INPUT SET: S31256.raw

47 (vii) PRIOR APPLICATION DATA:  
48 (A) APPLICATION NUMBER: 9311047.6  
49 (B) FILING DATE: May 28, 1993  
50  
51 (vii) PRIOR APPLICATION DATA:  
52 (A) APPLICATION NUMBER: 9313763.6  
53 (B) FILING DATE: July 2, 1993  
54  
55  
56 (vii) PRIOR APPLICATION DATA:  
57 (A) APPLICATION NUMBER: 9136099.2  
58 (B) FILING DATE: August 3, 1993  
59  
60 (vii) PRIOR APPLICATION DATA:  
61 (A) APPLICATION NUMBER: 321344.5  
62 (B) FILING DATE: October 15, 1993  
63  
64 (viii) ATTORNEY/AGENT INFORMATION:  
65 (A) NAME: Mary Anne Schofield  
66 (B) REGISTRATION NUMBER: 36,669  
67 (C) REFERENCE/DOCKET NUMBER: LUD 5539.1 CIP - JEL/MAS  
68  
69 (ix) TELECOMMUNICATION INFORMATION:  
70 (A) TELEPHONE: (212) 318-3000  
71 (B) TELEFAX: (212) 752-5958  
72  
73  
74  
75 (2) INFORMATION FOR SEQ ID NO: 1:  
76  
77 (i) SEQUENCE CHARACTERISTICS:  
78 (A) LENGTH: 1984 base pairs  
79 (B) TYPE: nucleic acid  
80 (C) STRANDEDNESS: unknown  
81 (D) TOPOLOGY: linear  
82  
83 (ii) MOLECULE TYPE: cDNA  
84  
85 (iii) HYPOTHETICAL: NO  
86  
87 (iii) ANTI-SENSE: NO  
88  
89 (v) FRAGMENT TYPE: internal  
90  
91 (vi) ORIGINAL SOURCE:  
92 (A) ORGANISM: Homo sapiens  
93  
94 (ix) FEATURE:  
95 (A) NAME/KEY: CDS  
96 (B) LOCATION: 283..1791  
97  
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
99

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,963

DATE: 03/30/1999  
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INPUT SET: S31256.raw

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102	AGAAACATTT TTGCTCCAGC CCCCATCCCA GTCCCGGGAG GCTGCCGCGC CAGCTGCGCC	120
103		
104	GAGCGAGCCC CTCCCCGGCT CCAGCCCGGT CCGGGGCCGC GCCGGACCCC AGCCCGCCGT	180
105		
106	CCAGCGCTGG CGGTGCAACT GCGGCCGCGC GGTGGAGGGG AGGTGGCCCC GGTCCGCCGA	240
107		
108	AGGCTAGCGC CCCGCCACCC GCAGAGCGGG CCCAGAGGGA CC ATG ACC TTG GGC	294
109	Met Thr Leu Gly	
110	1	
111		
112	TCC CCC AGG AAA GGC CTT CTG ATG CTG CTG ATG GCC TTG GTG ACC CAG	342
113	Ser Pro Arg Lys Gly Leu Leu Met Leu Leu Met Ala Leu Val Thr Gln	
114	5 10 15 20	
115		
116	GGA GAC CCT GTG AAG CCG TCT CGG GGC CCG CTG GTG ACC TGC ACG TGT	390
117	Gly Asp Pro Val Lys Pro Ser Arg Gly Pro Leu Val Thr Cys Thr Cys	
118	25 30 35	
119		
120	GAG AGC CCA CAT TGC AAG GGG CCT ACC TGC CGG GGG GCC TGG TGC ACA	438
121	Glu Ser Pro His Cys Lys Gly Pro Thr Cys Arg Gly Ala Trp Cys Thr	
122	40 45 50	
123		
124	GTA GTG CTG GTG CGG GAG GAG GGG AGG CAC CCC CAG GAA CAT CGG GGC	486
125	Val Val Leu Val Arg Glu Glu Gly Arg His Pro Gln Glu His Arg Gly	
126	55 60 65	
127		
128	TGC GGG AAC TTG CAC AGG GAG CTC TGC AGG GGG CGC CCC ACC GAG TTC	534
129	Cys Gly Asn Leu His Arg Glu Leu Cys Arg Gly Arg Pro Thr Glu Phe	
130	70 75 80	
131		
132	GTC AAC CAC TAC TGC TGC GAC AGC CAC CTC TGC AAC CAC AAC GTG TCC	582
133	Val Asn His Tyr Cys Cys Asp Ser His Leu Cys Asn His Asn Val Ser	
134	85 90 95 100	
135		
136	CTG GTG CTG GAG GCC ACC CAA CCT CCT TCG GAG CAG CCG GGA ACA GAT	630
137	Leu Val Leu Glu Ala Thr Gln Pro Pro Ser Glu Gln Pro Gly Thr Asp	
138	105 110 115	
139		
140	GGC CAG CTG GCC CTG ATC CTG GGC CCC GTG CTG GCC TTG CTG GCC CTG	678
141	Gly Gln Leu Ala Leu Ile Leu Gly Pro Val Leu Ala Leu Leu Ala Leu	
142	120 125 130	
143		
144	GTG GCC CTG GGT GTC CTG GGC CTG TGG CAT GTC CGA CGG AGG CAG GAG	726
145	Val Ala Leu Gly Val Leu Gly Leu Trp His Val Arg Arg Arg Gln Glu	
146	135 140 145	
147		
148	AAG CAG CGT GGC CTG CAC AGC GAG CTG GGA GAG TCC AGT CTC ATC CTG	774
149	Lys Gln Arg Gly Leu His Ser Glu Leu Gly Glu Ser Ser Leu Ile Leu	
150	150 155 160	
151		
152	AAA GCA TCT GAG CAG GGC GAC ACG ATG TTG GGG GAC CTC CTG GAC AGT	822

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153	Lys	Ala	Ser	Glu	Gln	Gly	Asp	Thr	Met	Leu	Gly	Asp	Leu	Leu	Asp	Ser	
154	165					170					175					180	
155																	
156	GAC	TGC	ACC	ACA	GGG	AGT	GGC	TCA	GGG	CTC	CCC	TTC	CTG	GTG	CAG	AGG	870
157	Asp	Cys	Thr	Thr	Gly	Ser	Gly	Ser	Gly	Leu	Pro	Phe	Leu	Val	Gln	Arg	
158					185					190					195		
159																	
160	ACA	GTG	GCA	CGG	CAG	GTT	GCC	TTG	GTG	GAG	TGT	GTG	GGA	AAA	GGC	CGC	918
161	Thr	Val	Ala	Arg	Gln	Val	Ala	Leu	Val	Glu	Cys	Val	Gly	Lys	Gly	Arg	
162				200					205					210			
163																	
164	TAT	GGC	GAA	GTG	TGG	CGG	GGC	TTG	TGG	CAC	GGT	GAG	AGT	GTG	GCC	GTC	966
165	Tyr	Gly	Glu	Val	Trp	Arg	Gly	Leu	Trp	His	Gly	Glu	Ser	Val	Ala	Val	
166			215					220					225				
167																	
168	AAG	ATC	TTC	TCC	TCG	AGG	GAT	GAA	CAG	TCC	TGG	TTC	CGG	GAG	ACT	GAG	1014
169	Lys	Ile	Phe	Ser	Ser	Arg	Asp	Glu	Gln	Ser	Trp	Phe	Arg	Glu	Thr	Glu	
170		230					235					240					
171																	
172	ATC	TAT	AAC	ACA	GTA	TTG	CTC	AGA	CAC	GAC	AAC	ATC	CTA	GGC	TTC	ATC	1062
173	Ile	Tyr	Asn	Thr	Val	Leu	Leu	Arg	His	Asp	Asn	Ile	Leu	Gly	Phe	Ile	
174	245					250					255					260	
175																	
176	GCC	TCA	GAC	ATG	ACC	TCC	CGC	AAC	TCG	AGC	ACG	CAG	CTG	TGG	CTC	ATC	1110
177	Ala	Ser	Asp	Met	Thr	Ser	Arg	Asn	Ser	Ser	Thr	Gln	Leu	Trp	Leu	Ile	
178					265					270					275		
179																	
180	ACG	CAC	TAC	CAC	GAG	CAC	GGC	TCC	CTC	TAC	GAC	TTT	CTG	CAG	AGA	CAG	1158
181	Thr	His	Tyr	His	Glu	His	Gly	Ser	Leu	Tyr	Asp	Phe	Leu	Gln	Arg	Gln	
182				280					285					290			
183																	
184	ACG	CTG	GAG	CCC	CAT	CTG	GCT	CTG	AGG	CTA	GCT	GTG	TCC	GCG	GCA	TGC	1206
185	Thr	Leu	Glu	Pro	His	Leu	Ala	Leu	Arg	Leu	Ala	Val	Ser	Ala	Ala	Cys	
186			295					300					305				
187																	
188	GGC	CTG	GCG	CAC	CTG	CAC	GTG	GAG	ATC	TTC	GGT	ACA	CAG	GGC	AAA	CCA	1254
189	Gly	Leu	Ala	His	Leu	His	Val	Glu	Ile	Phe	Gly	Thr	Gln	Gly	Lys	Pro	
190		310					315					320					
191																	
192	GCC	ATT	GCC	CAC	CGC	GAC	TTC	AAG	AGC	CGC	AAT	GTG	CTG	GTC	AAG	AGC	1302
193	Ala	Ile	Ala	His	Arg	Asp	Phe	Lys	Ser	Arg	Asn	Val	Leu	Val	Lys	Ser	
194	325					330					335					340	
195																	
196	AAC	CTG	CAG	TGT	TGC	ATC	GCC	GAC	CTG	GGC	CTG	GCT	GTG	ATG	CAC	TCA	1350
197	Asn	Leu	Gln	Cys	Cys	Ile	Ala	Asp	Leu	Gly	Leu	Ala	Val	Met	His	Ser	
198					345					350					355		
199																	
200	CAG	GGC	AGC	GAT	TAC	CTG	GAC	ATC	GGC	AAC	AAC	CCG	AGA	GTG	GGC	ACC	1398
201	Gln	Gly	Ser	Asp	Tyr	Leu	Asp	Ile	Gly	Asn	Asn	Pro	Arg	Val	Gly	Thr	
202				360					365					370			
203																	
204	AAG	CGG	TAC	ATG	GCA	CCC	GAG	GTG	CTG	GAC	GAG	CAG	ATC	CGC	ACG	GAC	1446
205	Lys	Arg	Tyr	Met	Ala	Pro	Glu	Val	Leu	Asp	Glu	Gln	Ile	Arg	Thr	Asp	

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,963

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TIME: 08:51:22

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206          375          380          385
207
208 TGC TTT GAG TCC TAC AAG TGG ACT GAC ATC TGG GCC TTT GGC CTG GTG      1494
209 Cys Phe Glu Ser Tyr Lys Trp Thr Asp Ile Trp Ala Phe Gly Leu Val
210      390          395          400
211
212 CTG TGG GAG ATT GCC CGC CGG ACC ATC GTG AAT GGC ATC GTG GAG GAC      1542
213 Leu Trp Glu Ile Ala Arg Arg Thr Ile Val Asn Gly Ile Val Glu Asp
214 405          410          415          420
215
216 TAT AGA CCA CCC TTC TAT GAT GTG GTG CCC AAT GAC CCC AGC TTT GAG      1590
217 Tyr Arg Pro Pro Phe Tyr Asp Val Val Pro Asn Asp Pro Ser Phe Glu
218      425          430          435
219
220 GAC ATG AAG AAG GTG GTG TGT GTG GAT CAG CAG ACC CCC ACC ATC CCT      1638
221 Asp Met Lys Lys Val Val Cys Val Asp Gln Gln Thr Pro Thr Ile Pro
222      440          445          450
223
224 AAC CGG CTG GCT GCA GAC CCG GTC CTC TCA GGC CTA GCT CAG ATG ATG      1686
225 Asn Arg Leu Ala Ala Asp Pro Val Leu Ser Gly Leu Ala Gln Met Met
226      455          460          465
227
228 CGG GAG TGC TGG TAC CCA AAC CCC TCT GCC CGA CTC ACC GCG CTG CGG      1734
229 Arg Glu Cys Trp Tyr Pro Asn Pro Ser Ala Arg Leu Thr Ala Leu Arg
230      470          475          480
231
232 ATC AAG AAG ACA CTA CAA AAA ATT AGC AAC AGT CCA GAG AAG CCT AAA      1782
233 Ile Lys Lys Thr Leu Gln Lys Ile Ser Asn Ser Pro Glu Lys Pro Lys
234 485          490          495          500
235
236 GTG ATT CAA TAGCCCAGGA GCACCTGATT CCTTTCCTGCC TGCAGGGGGC      1831
237 Val Ile Gln
238
239 TGGGGGGGGTG GGGGGCAGTG GATGGTGCCC TATCTGGGTA GAGGTAGTGT GAGTGTGGTG      1891
240
241 TGTGCTGGGG ATGGGCAGCT GCGCCTGCCT GCTCGGCCCC CAGCCCACCC AGCCAAAAAT      1951
242
243 ACAGCTGGGC TGAAACCTGA AAAAAAAAAA AAA      1984
244
245
246 (2) INFORMATION FOR SEQ ID NO: 2:
247
248 (i) SEQUENCE CHARACTERISTICS:
249 (A) LENGTH: 503 amino acids
250 (B) TYPE: amino acid
251 (D) TOPOLOGY: linear
252
253 (ii) MOLECULE TYPE: protein
254
255 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
256
257 Met Thr Leu Gly Ser Pro Arg Lys Gly Leu Leu Met Leu Leu Met Ala
258 1 5 10 15

```

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/267,963**

DATE: 03/30/1999  
TIME: 08:51:22

*INPUT SET: S31256.raw*

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER: 09/039,177
29	Wrong Classification	(C) CLASSIFICATION: 435